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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/921,936	08/02/2001	Madhu Rao	81862P248	8366
7590 06/10/2005 Stephen T. Neal			EXAMINER	
			LIN, KEI	LIN, KELVIN Y
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP Seventh Floor			ART UNIT	PAPER NUMBER
12400 Wilshire Boulevard Los Angeles, CA 90025-1026			2142	
			DATE MAILED: 06/10/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		09/921,936	RAO ET AL.				
	Office Action Summary	Examiner	Art Unit				
	·	Kelvin Lin	2142				
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on <u>21 October 2004</u> .							
2a)⊠	2a)⊠ This action is FINAL . 2b)☐ This action is non-final.						
-3)□	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4) 🖂	4)⊠ Claim(s) <u>1-81</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>1-81</u> is/are rejected.						
, , ,	· - · · · · · · · · · · · · · · · · · ·						
8)[8) Claim(s) are subject to restriction and/or election requirement.						
Applicat	ion Papers						
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority	under 35 U.S.C. § 119						
	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen			· (DTO, 440)				
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) La Interview Summary Paper No(s)/Mail D					
3) Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	——————————————————————————————————————	Patent Application (PTO-152)				
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Detailed Action

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this Section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- Claims 1-81 are rejected under 35 USC 102(a) as being anticipated by Cisco
 Document (Cisco Publication: Frame Relay ELMI Address Registration, Posted
 On Dec. 6, 2000:

http://www.cisco.com/univercd/cc/td/doc/product/software/ios121/121newft/121t/121t3/tf ripar.htm).

- 3. Regarding claim 1, Cisco teaches a system, comprising:
 - a local area network management system to manage and configure a network of routers (Cisco, Sec. of Feature Overview "... the NMS can detect switch and router ...");
 - a wide area network management system to manage and configure

 a network of switches (Cisco, Sec. of Feature Overview "... the

 NMS can detect switch and router ..."); and
 - address registration information to be appended to a message sent
 between a first router of the network of routers and a first switch of

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the network of switches over a connection between the first router and the first switch (Cisco, Fig. 1, shows a typical network in which ELMI address registration is in use).

- 4. Regarding claim 2, Cisco further discloses the system of claim 1, wherein the address registration information comprises an interface index (Cisco, Sec. of Feature Overview, "... The NMS uses the MIB to extract the IP address and ifIndex of devices neighboring the managed device ...").
- 5. Regarding claim 3, Cisco further discloses the system of claim 2, wherein the interface index comprises a slot number from which the appended message was sent (Cisco, Sec. of Prerequisties, "ELMI must be enabled on the Cisco router and Cisco switch, which configures the slot number in the interface index. ").
- 6. Regarding claim 4, Cisco further discloses the system of claim 2, wherein the interface index comprises a port number from which the appended message was sent (Cisco, Sec. of Prerequisties, "ELMI must be enabled on the Cisco router and Cisco switch, which configures the port number in the interface index. ").
- 7. Regarding claim 5, Cisco further discloses the system of claim 1, wherein the address registration information comprises an Interne Protocol address (Cisco, Sec. of Feature Overview, "The Cisco Frame Relay MIB has been enhanced to support the new ELMI information. The NMS uses the MIB to extract the IP address and ifIndex of devices neighboring the managed. ").
- 8. Regarding claim 6, Cisco further discloses the system of claim 1, wherein the address registration information comprises spare bytes. (Cisco, Sec. of

Configuration Task, "... the following Sections for configuration tasks for the Frame Relay ELMI Address Registration feature. Each task in the list is identified as optional or required - which means the optional filed can be used as a spare byte. ").

- 9. Regarding claim 7, Cisco further discloses the system of claim 1, wherein the router sends the appended message (Cisco, Sec. of Usage Guidelines, "...the first line describes the LMI request that the router has sent to ..." & ".. you can use this command to determine whether the router and the (Frame Relay switch) are sending and receiving LMI packets properly...").
- 10. Regarding claim 8, Cisco further discloses the system of claim 1, wherein the switch sends the appended message (Cisco, Sec. of Usage Guidelines, "... the Second line describes the LMI reply that the router has received from the switch ... " and "... you can use this command to determine whether (the router) and the Frame Relay switch are sending and receiving LMI packets properly..").
- 11. Regarding claim 9, Cisco further discloses the system of claim 1, wherein the appended message is an enhanced local management interface message (Cisco, Sec. of Future Review, "...the Second line describes the LMI reply that the router has received from the switch ...").
- 12. Regarding claim 10, Cisco further discloses the system of claim 1, wherein the appended message is sent when the network of switches and the network of routers are first configured (Cisco, Fig. 1, "... the first switch and router are first configured, and also according to sec. of prerequisites, ELMI must be enables on

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- the Cisco router and the Cisco switch").
- 13. Regarding claim 11, Cisco further discloses the system of claim 1, wherein the appended message is sent when the network of switches or the network of routers has a change in configuration (Cisco, Sec. of Future Overview, "... When the management IP address of the switch changes, an asynchronous ELMI version status message is sent to the neighboring device immediately..").
- 14. Regarding claim 12, Cisco further discloses the system of claim 1, wherein the appended message is sent at a regular interval (Cisco, Sec. of Future Overview, "...the NMS 'polls' the devices to collect this connectivity information..").
- 15. Regarding claim 13, Cisco further discloses the system of claim 1, wherein the local area network management system uses the address registration information to map the network of switches (Cisco, Sec. of Feature Overview, "With the Frame Relay ELMI Address Registration feature, the NMS can detect switch and router interconnection and create an end-to-end network topology map for network administrators", Table 2, "... yourseen counter maps to the LAST RCVD SEQ counter of the switch..").
- 16. Regarding claim 14, Cisco further discloses the system of claim 1, wherein the local area network management system configures the network of switches (Cisco, sec. of Prerequisites " ELMI must be enabled (configured) on the Cisco switch").
- 17. Regarding claim 15, Cisco further discloses the system of claim 1, wherein the wide area network management system uses the address registration information

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to map the network of routers (Cisco, Sec. of Feature Overview, "With the Frame Relay ELMI Address Registration feature, the NMS can detect switch and router interconnection and create an end-to-end network topology map for network administrators").

- 18. Regarding claim 16, Cisco further discloses the system of claim 15, wherein the wide area network management system configures the network of routers (Cisco, Sec. of Configuring the IP Address to Be Used for ELMI Address Registration Configuration, "... because no other IP address was configured, the router will share an IP address of 0.0.0.0 and a valid ifIndex.. ").
- 19. Regarding claims 17-32, have similar limitations as claims 1-16, which also Involved in the switches, routers in the system that makes the interconnectivity including the LAN and WAN. Therefore, claims 17-32 are rejected under Cisco for the same reasons set forth in the rejection of claims 1-16.
- Regarding claims 33-48, have similar limitations as claims 1-16, which are also Embedded the instruction codes (e.g. CLI) in the switches, and routers.
 Therefore, claims 33-48 are rejected under Cisco for the same reasons set forth in the rejection of claims 1-16.
- 21. Regarding claims 49-64, the means function that have WAN. LAN, NMS, CLI EMLI, UFM, and appended messages have similar limitations as claims 1-16, Therefore, claims 49-64 are rejected under Cisco for the same reasons set forth in the rejection of claims 1-16.

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22. Regarding claims 65-80, the devices of router, and switch that send appended message from router or switch, have similar limitations as claims 1-16,

Therefore, claims 65-80 are rejected under Cisco for the same reasons set forth in the rejection of claims 1-16.

- 23. Regarding claim 81, Cisco further discloses a method, comprising:
 - appending address registration information to a message (Cisco, Sec. of Configuration Examples, "Configuration the IP address to be used for ELMI address registration configuration - The following example shows how to configure the IP address to be used for ELMI address registration. Automatic IP address selection is automatically disabled when the IP address is configured. ELMI is enabled on serial interface 0.");

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- sending the message between a router of a router network and a switch of a switch network (Cisco, fig. 1);
- using the address registration information to map the router
 network from a wide area network management system controlling
 the switch network (Cisco, Sec. of Feature Overview, "With the
 Frame Relay ELMI Address Registration feature, the NMS can
 detect switch and router interconnection and create an end-to-end
 network topology "map" for network administrators");
- configuring the router network using the wide area network
 management system (Cisco, sec. of Benefits, "...using the ELMI

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protocol and an enhanced MIB, an NMS can now detect connectivity among the "switches" and routers in a network. This new functionality allows for autodetection of the complete network topology.");

using the address registration information to map the switch network from a local configuring the switch network using the local area network management system .(Cisco, sec. of Benefits, "... using the ELMI protocol and an enhanced MIB, an NMS can now detect connectivity among the switches and "routers" in a network. This new functionality allows for autodetection of the complete network topology.");

Conclusion

Application's amendment necessitated the new ground(s) of rejection presented in this Office action, Accordingly, **THIS ACTION IS MADE FINAL.** See MEPE 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first replay is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE MONTH shortened statutory period, then the

than SIX MONTH from the date of this final action.

shortened statutory period will expire on the date advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kelvin Lin whose telephone number is 571-272-3898. The examiner can normally be reached on Flexible 4/9/5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rupal Dharia can be reached on 571-272-3880. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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